

ABSTRACT

To provide a broadband circuit from which a desired circuit characteristic is stably obtained over a wide frequency band with a small number of circuit devices and which can be easily designed. In the case of the broadband circuit to which a circuit device is connected through a transmission line including a signal transmission conductor, grounding conductor, and dielectric present between these conductors, an LILC 13 having a four-terminal line structure in which a pair of conductors are faced each other, having an impedance lower than that of a conductor connected to any terminal, and using a frequency band of an electromagnetic wave whose wavelength is shorter than a length approximately four times of the length of the line as an object frequency band is inserted into the transmission line and used as a low impedance device to the electromagnetic wave of the object frequency band.